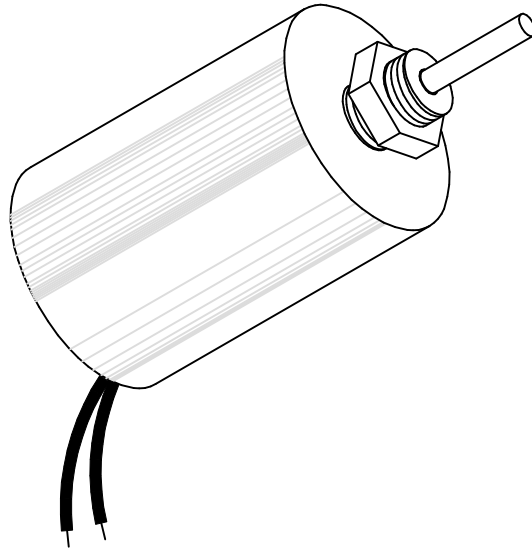


# MAGNETIC SENSOR SYSTEMS

## *Push Type Tubular Solenoid*



**Series S-22-150-H**  
**1.5" DIA X 2.19"**

TOTAL WEIGHT: 14.5 OUNCES

PLUNGER WEIGHT: 2.7 OUNCES

duty cycle	1	1/2	1/4	1/10
maximum "ON" time, (Sec.)	∞	580	210	56
watts	10	20	40	100
approximate ampere turns	1200	1700	2400	3800

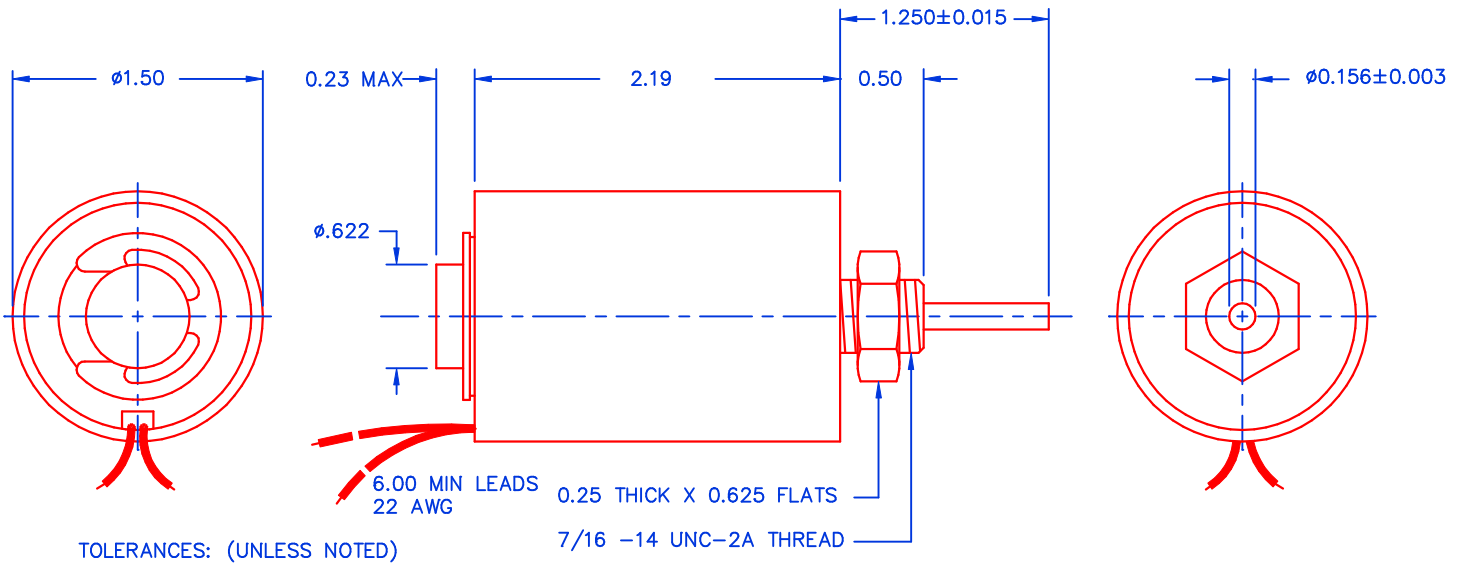
AWG number	resistance	volts DC	volts DC	volts DC	volts DC
20	0.95	2.9	4.1	5.8	9.3
21	1.90	4.4	6.2	8.8	13.9
22	3.00	5.3	7.6	10.7	16.9
23	4.60	6.6	9.4	13.3	21.0
24	7.40	8.4	11.9	16.8	26.7
25	12.10	10.6	15.0	21.1	33.4
26	20.2	13.6	19.3	27.2	43.1
27	30.5	17.1	24.2	34.1	54.0
28	46.6	21.5	30.5	43.1	68.2
29	76.4	27.2	38.5	54.3	86.0
30	126	34.3	48.6	68.6	109
31	192	43.5	61.6	86.9	138
32	305	54.6	77.4	109	173
33	483	69.7	98.7	139	221
34	787	89.5	127	179	284
35	1260	115	163	230	364
36	1976	142	201	283	448
37	2930	167	237	335	530

HEAT SINK: For proper heat dissipation, body of solenoid should be mounted on an equivalent of 6.0" x 6.0" x 1/8" aluminum plate in an unrestricted flow of air.

# MAGNETIC SENSOR SYSTEMS

S-22-150-H

## MECHANICAL DIMENSIONS



TOLERANCES: (UNLESS NOTED)  
 .XXX:  $\pm 0.005$   
 .XX :  $\pm 0.010$   
 X/X:  $\pm 1/64$   
 COIL RESISTANCE:  $\pm 10\%$

SOLENOID SHOWN ENERGIZED

## TYPICAL PUSH FORCE VERSUS STROKE

